

What is claimed is:

1. A driving method of a plasma display panel (PDP), comprising the steps of:

detecting a false contour generation region from a video data; and

performing a selective dithering to the detected false contour generation region.

2. The driving method according to claim 1, wherein the selective dithering is performed to a gray scale of a pixel generating the false contour and gray scales of pixels included in a predetermined range.

3. The driving method according to claim 1, wherein the selective dithering allows the position of the false contour generation region to be dispersed differently with each other.

4. A driving method of a PDP, comprising the steps of:
respectively detecting false contour generation regions from video data of a previous frame period and a current frame period;

extracting a motion information from the video data of the previous frame period and the current frame period

including the detected respective false contour generation regions; and

compensating the false contour by using the extracted motion information.

5. The driving method according to claim 4, wherein the video data of the previous frame period is stored such that the video data is delayed during one frame period by a frame memory.

6. The driving method according to claim 4, further comprising the step of performing a selective dithering to the false contour generation region detected from the video data of the current frame period.

7. The driving method according to claim 6, wherein the selective dithering is performed to a gray scale of a pixel generating the false contour and gray scales of pixels included in a predetermined range.

8. The driving method according to claim 4, further comprising the step of, prior to extracting the motion information, substituting a gray scale value of the false contour generation pixel for a gray scale value approaching a

false contour generation pixel of each of the video data of the current frame period.

9. The method according to claim 4, wherein the false contour is generated when the gray scale having a combination of a plurality of sub-fields is any one among 16, 32, 64 and 128.

10. The method according to claim 4, wherein the extracting step comprises the steps of:

matching the video data of the previous frame period with the video data of the current frame period; and

extracting the motion information from a change of the movement of the false contour generation region included in the video data of the previous frame period and the current frame period.

11. The method according to claim 4, wherein the motion information comprises size, direction and velocity value of the gray scale.

12. The method according to claim 4, wherein the compensating step comprises the steps of:

setting a compensation value on the basis of the velocity value; and

adding or subtracting the compensation value to or from the gray scale which has generated the false contour depending on the direction.

13. The driving method according to claim 12, further comprising the step of setting the compensation value on the basis of the size of the gray scale.

14. The driving method according to claim 12, wherein the compensation value is varied in proportion to the velocity value.

15. A driving method of a PDP, comprising the steps of:
respectively detecting a false contour generation regions from video data of a previous frame period and a current frame period;

first compensating the false contour in the respectively detected false contour generation regions;

when there exists a false contour generation region, which is not overcome by the first compensation of the false contour, extracting a motion information from the video data of the previous frame period and the current frame period; and

secondly compensating the false contour by using the extracted motion information.

16. The driving method according to claim 15, wherein the first compensation of the false contour is performed by, when a plurality of false contour generation pixels exist in a data string of the video data of the previous frame period and the current frame period, substituting a gray scale value of the false contour generation pixel for a gray scale value approaching the false contour generation pixel.

17. The driving method according to claim 15, wherein the motion information comprises size, direction and velocity value of the gray scale level.

18. The driving method according to claim 15, wherein the second compensation of the false contour is performed by adding or subtracting the compensation value to or from the gray scale which has generated the false contour depending on the direction.

19. A driving apparatus of a PDP, comprising:

means for respectively detecting a false contour generation regions from video data of a previous frame period and a current frame period;

means for extracting a motion information from the video data of the previous frame period and the current frame period

including the detected respective false contour generation regions; and

means for compensating the false contour by using the extracted motion information.

20. The apparatus according to claim 19, further comprising means for delaying the video data of the current frame period to output the delayed video data as the video data of the previous frame period.

21. The apparatus according to claim 19, further comprising means for performing a selective dithering to the false contour generation region detected from the video data of the current frame period.

22. The apparatus according to claim 4, wherein the motion information comprises size, direction and velocity value of the gray scale.

23. The apparatus according to claim 19, wherein the false contour is generated when the gray scale having a combination of a plurality of sub-fields is any one among 16, 32, 64 and 128.

24. The apparatus according to claim 19, wherein the extracting means extracts the motion information from a change of the movement of the false contour generation region through a matching of the video data of the previous frame period with the video data of the current frame period.

25. The apparatus according to claim 19, wherein the motion information comprises size, direction and velocity value of the gray scale.

26. The apparatus according to claim 19, wherein the compensating means, after setting the compensation value depending on the velocity value, adds or subtracts the set compensation value to or from a gray scale, which has generated the false contour.

27. The apparatus according to claim 19, wherein the compensating means sets the compensation values to be different depending on the size of the gray scale, which has generated the false contour.